



Overview

1207 ETN9

Self-aligning ball bearing

Self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

Basic dynamic load rating	19 kN
Basic static load rating	6 kN
Reference speed	20 000 r/min
Limiting speed	13 000 r/min

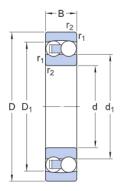
Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without



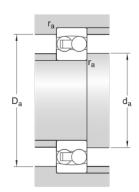
Technical Specification

ylindrical
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Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
В	17 mm	Width
d_1	≈ 47 mm	Shoulder diameter inner ring
D_1	≈ 60.9 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d _a min. 42 mm	Abutment diameter shaft
D _a max. 65 mm	Abutment diameter housing
r _a max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	19 kN
Basic static load rating	C_0	6 kN
Fatigue load limit	P_{u}	0.305 kN
Reference speed		20 000 r/min



Limiting speed		13 000 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.04
Limiting value	е	0.23
Calculation factor	Y_0	2.8
Calculation factor	Y_{1}	2.7
Calculation factor	Y_2	4.2

Mass



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